

JDISS
IMAGE PRODUCT ARCHIVE (IPA) CLIENT
Ver 1.2.1

INSTALLATION & SYSTEM ADMINISTRATION
MANUAL

For GCCS 2.1/2.2

29 July 1996

Joint Deployable Intelligence Support System

Prepared by:

Office of Naval Intelligence, JDISS PMO
ONI-7JD

Suitland, Maryland

Technical Review

Quality Review

Management Review

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1. INTRODUCTION

1.1 IPA Client Segment Overview

The IPA (Image Product Archive) Client Segment provides a user interface application which can connect with an IPA server. This segment is a JDISS Corporate Service (or JDISS plug-in) to either the JDISS Server or JDISS Client segment. Either the JDISS Server or JDISS Client must be installed prior to installation of this segment.

1.2 IPA Program Overview

The purpose of the IPA program is to establish standard servers in all theatres which can obtain and archive imagery files and/or imagery products from multiple sources. These files and products are in turn made available to imagery customers throughout the world. The mission is expanding to include the storage of maps and video files as well. IPA servers are currently on-line in several theatres. These servers can be accessed from clients anywhere in the Wide Area Network using this segment. The IPA program provides both the server and client software necessary to implement the IPA mission. The JDISS PMO, a "clearing house" of integrated intelligence applications, currently packages the IPA Client to operate successfully in joint systems which have an intelligence mission. To date this includes JDISS itself, JMCIS (Joint Maritime Command Information System), and GCCS.

2. IPA CLIENT FUNCTIONS

The IPA Client Segment provides the following capabilities:

- Download of imagery and/or image products from one or multiple IPA servers to the user's workstation.
- Upload of imagery and/or image products from a user's workstation to an IPA server.
- Research imagery and/or image product holdings, to include both IPA and national-level IDEX II servers.

A Web browser can also be used to connect with IPA servers, but current capabilities via the Web interface are limited to retrievals from one server at a time. Also the Web interface only allows downloads of data; uploads currently require use of the IPA Client application.

3. SYSTEM REQUIREMENTS & DEPENDENCIES

The IPA Client requires about 15MB of disk space.

Either the JDISS Server or JDISS Client segment must be installed on the workstation before installing IPA Client.

4. SEGMENT POST INSTALL & ADMINISTRATION

This segment installs routinely with the GCCS SAInstaller program. After performing segment installation, the procedures described below must be done manually by the system administrator.

4.1 Propagate IPA Groups and Users in the NIS+ Domain

This is a manual system administration procedure that needs to be executed on the NIS+ root master server for domains that will use the IPA Client segment. These instructions must be executed by the system administrator or ``root".

Two groups, ipa and autoipa, must be added in order for the IPA Client segment to execute. The names of IPA users must be associated with both groups. As new IPA users are identified, this procedure must be repeated.

The following instructions describe how to manually add (or update) these groups in an NIS+ domain:

- (1) Write down the user names of those who will need to use the IPA Client.
- (2) Edit the /h/EM/nis_files/group file using vi or another editor and save the file.

Add (or update) the following lines in the file:

ipa::102:username,username

autoipa::103:username,username

In the example above, ``username" represents the name of a user to add to the group. The names must be comma-separated. The same names must be added to both groups.

- (3) Execute the following command to propagate the new (or updated) groups to all hosts in the NIS+ domain.

```
/usr/lib/nispopulate -F -f -p /h/EM/nis_files group
```

4.2 Identify Desired Server(s)

The IPA Client reads the /etc/host file on the local workstation to present the user with a list of potential servers. The system administrator must enter the appropriate server hostnames and IP addresses in the /etc/host file for the client to select from. As the IPA program expands, new servers will no doubt need to be identified and added. A typical IPA server that may be reached on the SIPRNET is located at USACOM.

4.3 Obtain User Accounts

Users must have accounts on the desired IPA Server(s) they wish to interface with. This usually requires contacting the desired agency, CINC, or other command, and forwarding a clearance message stating a requirement for access to their IPA server.

Once the user account has been created, a response will be returned with a temporary password. Upon first login, the user will be prompted to enter a new password.